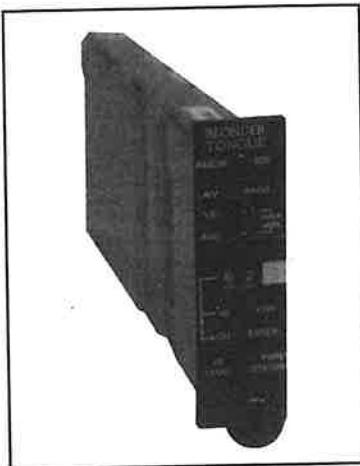


HE-12 and HE-4 Modular Headend System

Headend



ORDERING INFORMATION:

AMCM-806
Stock No. 7766

ACCESSORIES:

Horizontal Agile Modulator
AMCM-806H
Stock No. 7766H

Rack Chassis
MIRC-12V
Stock No. 7715

Power Supply
MIPS-12C
Stock No. 7722C

The AMCM-806 is a professional quality agile audio/video modulator with an output frequency range of 54-806 MHz. It joins Blonder Tongue's impressive family of modular headend components and works in conjunction with the MIRC-12V rack chassis and MIPS-12C power supply.

The unit provides a modulated aural & visual carrier on any channel in the 54 to 806 MHz range. Frequency plan including Standard CATV, IRC, HRC and Broadcast are accommodated via front panel selection. Channel tuning easily accomplished with the use of front panel switches following the entry instructions. All channels with appropriate FCC offsets are pre-programmed and tuned electronically via microprocessor.

The unit accepts any standard audio/video source such as satellite receivers, television camera, video tape recorders demodulators. The advanced design ensures front panel access with LED indicators for all level and over-modulation controls. Internal selectable jumper settings allow for compatibility of features such as defeatable audio pre-emphasis and BTSC compatibility.

Special features have been built into the unit firmware to ensure the best possible user experience. This includes the ability to alert an operator to any inadvertent or designed change to the unit switches by flashing a red error indicator. The indicator will continue to flash until the condition is corrected or the unit is reset.

FEATURES:

- Supports all Broadcast and CATV channels, including HRC and IRC assignments from 54 to 806 MHz.
- Meets FCC Docket 21006 Aeronautical Frequency Response Offset Requirements
- Fully Compatible with BTSC Encoded Stereo Audio
- Front Panel Access to All Level Controls and Indicators
- Die-Cast Chassis Offers Superior Protection Against Ingress or Egress
- Compatible with Blonder Tongue's Modular MIRC-12V Rack Chassis and MIPS-12C Power Supply
- Horizontal Unit Compatible with Blonder Tongue's MIRC-4C Chassis and FAxM Series Products
- Three Year Warranty

www.blondertongue.com

Toll Free For Ordering!
800-523-6049
FAX 800-336-6295

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c4.4

Headend

RF	AMCM-806	Units	AUDIO		
Frequency Range:	54-806	MHz	Input Level:	140(e)	mV RMS
Channels:	CATV, VHF, UHF (STD,HRC,IRC)		Ext. 4.5 MHz Input Level:	40 ±1(f)	dBmV
FCC Offset (pre-programmed):	0, +12.5, or 25	kHz	Frequency Range:	20 Hz to 20 kHz	
Output Level - Min:	+45	dBmV	Pre-Emphasis-Mono:	75 (j)	μs
Output Level Adjust:	15 (k)	dB	Frequency Response:	±1.0 (g)	dB
Aural/Visual Carrier Ratio:	-10 to -17(a)	dB	IF Pre-Emphasis defeated:	+0.5	dB
Visual Carrier Frequency Tolerance			Audio Signal-to-Noise:	58 (e)	dB
Standard Channels:	±5	kHz	Total Harmonic Distortion:	0.6 (h)	%
FCC Aeronautical Channels:	±3 max	kHz	Over Modulation Indicator:	25, ±2	kHz
4.5 MHz Aural Inter Carrier Frequency:	±1(i)	Hz	Input Impedance:	Greater than 10k Ω, unbalanced	
Channel Selectivity:			GENERAL		
Adjacent Aural and Below:	-40	dB	Power Requirements		
Adjacent Picture and Above:	-50	dB	Voltage:	+12, +5	VDC
Spurious Outputs:	-60	dBc	Power:	5	W
C/N Ratio In Channel:	65 (b)	dB	Temperature Range:	0 to +50	°C
Broadband Noise:	-76 (b)	dBc	Current:	235, 375	mA
Output Impedance:	75	Ω			
Output Return Loss:	12	dB	MECHANICAL		

VIDEO			CONNECTORS (Rear Panel)		
Input Level:	1.0 (d)	V p-p	Video Input:	"F" type, female	
Frequency Response fv-0.5 MHz to fv+4.2 MHz:	±1.0	dB	Audio Input:	RCA Phono	
P-P Video to RMS Hum Ratio:	65	dB	RF Output:	"F" Type Female	
Video Signal-to-Noise Ratio, NTC-7 Weighted:	62	dB	CONTROLS (Front Panel)		
Differential Gain:	2.0 (d)	%	Frequency Selection:	Push-Button Switches	
Differential Phase:	1.0 (d)	°	Video Level:	Control	
C/L Delay Inequality:	see note (c)	ns	A/V Ratio:	Control	
Over Modulation Indicator:	87.5, ±2.5	%	Audio Level:	Control	
Input Impedance:	75	Ω	RF Output Level:	Control	
Input Return Loss:	24	min, dB	Channel Enter:	Push Button	
INDICATORS (Front Panel)			NOTES		
Power ON:	2 color LED, red/green		(a)	approximate, adjustable in 1 db increments	
Video Over Modulation:	LED, red		(b)	4 MHz bandwidth, +45 dBmV output	
Audio Over Modulation:	LED, red		(c)	meets FCC CATV group delay pre-distortion requirements for color transmission	
			(d)	87.5% depth of modulation	
			(e)	for 25 kHz peak deviation	
			(f)	available via internal jumper setting	
			(g)	referenced to standard 75 μs pre-emphasis	
			(h)	20 Hz to 20 kHz, 25 kHz deviation	
			(i)	0 °C to +50 °C	
			(j)	defeatable via internal jumper setting for BTSC stereo compatibility	
			(k)	continuously adjustable, optimum performance at +35 to +45 dBmV	

Ordering Notes: (1) Specify desired frequency. (2) Specify desired channel(s). (3) Specify desired option. (4) Specify desired isolation value or tap value.



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